

# IMPROVEMENT IN METHOD FOR COMPRESSION OF SPEECH DIGITALLY CODED

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## Abstract of JP1013200

**PURPOSE:** To obtain a high quality speech with sufficiently low complexity for real-time coding by connecting vector quantization(VQ) to advantages of both adaptive prediction coding (ASO) and code excited linear prediction(CELP). **CONSTITUTION:** The VQ is connected to the advantages of both the APC and CELP. Namely, respective vectors of K speech samples are roughly calculated by using M fixed vectors stored in a VQ code book and selecting an optimum synthesized vector minimizing the size of perceptually meaningful distortion to excite a composite filter for time variation. Consequently, an analog speech or audio waveform can be coded into a bit stream which is compressed for storage and/or transmission in real time, so the waveform can be reconstitution later for reproduction and the adaptive postfiltering of a speech or audio signal which is disordered with a noise generated owing to deterioration of a coding system or other sources can be enabled so as to improve the perceptual quality of the speech or audio signal.

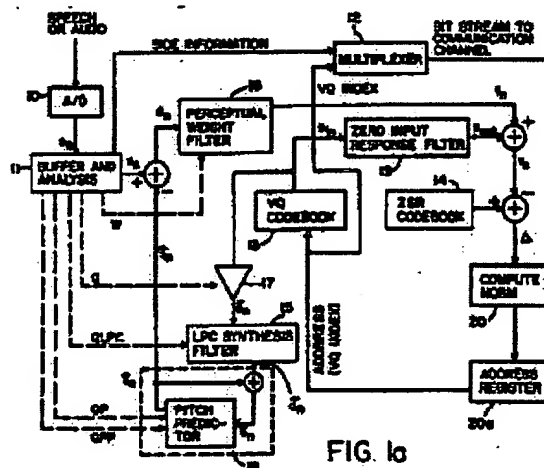


FIG. 1b

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